

STATEMENT OF WORK
Structure for Water Control (587)
Wyoming

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN**Deliverables:**

1. Design Surveys
 - a. Profile and cross section of conveyance (adequate distance to establish water surface and ground control elevations)
 - b. Site topography (field elevations, etc.)
 - c. Location of physical features that may have an effect on construction.
 - d. Soils classification and foundation investigation as needed.
 - e. Resistivity survey, if required.
 - f. Drainage area.
2. Design documents that demonstrate criteria in practice standard have been met and are compatible with planned and applied practices
 - a. Practice purpose(s) as identified in the conservation plan.
 - b. List of required permits to be obtained by the client
 - c. Compliance with NRCS national and state utility safety policy (NEM part 503-Safety, Section 503.00 through 503.22)
 - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Geology and Soil Mechanics (NEM Subpart 531a)
 - ii. Capacity requirements
 - iii. Hydrology/Hydraulics
 - iv. Material selection
 - v. Structural including hazard class as appropriate
 - vi. Quantity computations
 - vii. Vegetation
 - viii. Records indicating NRCS obligations regarding State and Federal regulations including NEPA requirements have been met if they apply.
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
 - a. Location map
 - b. Overall plan view of structure
 - c. Channel profile upstream and downstream of structure as needed.
 - d. Structural details including sectional views.
 - e. Reinforcing steel schedule (for concrete structures)
 - f. Backfill material and borrow areas.
 - g. Table of quantities
3. Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32).
4. Operation and maintenance plan
5. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03(b)(2))
6. Design modifications during installation as required

INSTALLATION**Deliverables**

1. Pre-installation conference with client and contractor
2. Verification that client has obtained required permits
3. Staking and layout according to plans and specifications including applicable layout notes
 - a. Centerline and slope stakes with offset stakes, as required to outline construction intent.

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- b. Grade, alignment and reference stakes for structures.
4. Installation inspection
 - a. Actual materials used
 - b. Inspection records
 - c. Profile of conveyance channel and related structure(s)
 - d. Dimensions, alignment, and backfill of structures.
 - e. Certification of reinforcing steel placement (for concrete structures)
 - f. Adequacy of material or appurtenances.
 - g. Quality of materials.
5. Facilitate and implement required design modifications with client and original designer
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation
7. Certification that the installation process and materials meets design and permit requirements

CHECK OUT**Deliverables**

1. As-built documentation
 - a. Extent of practice units applied
 - b. Drawings
 - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c)(1))
3. Progress reporting

REFERENCES

- Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard, Structure for Water Control, 587.
- National Engineering Manual
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook